



United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/687,348	10/12/2000	Ramesh Nagarajan	16-13-2	9948
22046 7.	6 7590 06/01/2004		EXAMINER	
LUCENT TECHNOLOGIES INC. DOCKET ADMINISTRATOR 101 CRAWFORDS CORNER ROAD - ROOM 3J-219 HOLMDEL, NJ 07733			LEE, CHI HO A	
			ART UNIT	PAPER NUMBER
			2663	7
			DATE MAILED: 06/01/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summans	09/687,348	NAGARAJAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Andrew Lee	2663				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status		·				
 Responsive to communication(s) filed on <u>12 October 2000</u>. This action is FINAL. 2b)∑ This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 						
Disposition of Claims						
4) ☐ Claim(s) 1-38 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-38 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or						
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the original transfer of the correction of	epted or b) objected to by the drawing(s) be held in abeyance. Secon is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 2.	4) Interview Summary Paper No(s)/Mail Di 5) Notice of Informal F 6) Other:					

Art Unit: 2663

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Re Claim 3, it is unclear what is meant that the "two diverse communication paths used for replicating and multi-selecting are the same". The "two diverse paths" are just physical channels and does not function to replicate or multi-select.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-5, 7-10, 12-19, 21-23, 25-33, 35, and 37 are rejected under 35U.S.C. 102(e) as being anticipated by Chang et al U.S. Patent Number 6,271,946.

Re Claims 1, 7, 13, 26, fig. 10 (a node) teaches replicating packets from IP source 1010 at IP Packet Multiplexer 1020 (dual feeding) to be outputted to links 1 and 2 (two diverse communication paths; multiple copies; disjointed);

Art Unit: 2663

'n

fig. 12 (an other node) teaches the IP selector 1220 (dual selecting) for selecting a packet from the input links (See col. 17, lines 23 ~ col. 19, lines 1-5).

Re Claims 2, 8, 14, 31, refer to Claim 1, wherein the packet is a signaling header packet (See col. 11, lines 38-50).

Re Claim 3, refer to Claim 1, wherein the links and IP packets between fig. 10 and fig. 12 are the same.

Re Claims 4, 12, 21, 25, 32, refer to Claim 1, wherein 1020 receives IP packets.

Re Claims 5, 33, refer to Claim 1, wherein the IP packets are identical (packet identifier).

Re Claims 9, 18, 22, 2627, refer to Claim 1, wherein the transport network is a WDN network.

Re Claims 10, 15, 23, 37, refer to Claims 1, 2, wherein the IP packet inherently has an sequence number to be replicated by 1020.

Re Claims 16, 17, 19, 35, refer to Claim 1, wherein fig. 12, Buffer & Resequencer 1230 receives the sequence number of copied IP packets and functions to discard and accepting for outputting proper sequence of IP packets.

Re Claim 30, refer to Claim 1, fig. 10 inherently includes a memory for storing a routing table to enable reception of IP packets from IP sources; fig. 10 further includes OLSAS system controller 1080 (a processor)

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 2663

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 7, 11, 20, 24, 34, 36 and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chang et al U.S. Patent Number 6,271,946 in view of O'Connor U.S. Patent Number 6,356,544.

Re Claims 7, 11, 20, 24, 34, 36 and 38, '946 fails to teach the replicated packet conveys an identical packet identifier in an additional shim header of a MPLS packet. However, '544 teaches that the benefit of using MPLS label switched paths can be merged to form multipoint to point trees. This reduces the amount of state information that must be maintained by the network. Hence, one skilled in the art would have been motivated by '544 to modify '946 to include the MPLS shim header for such benefit.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Lee whose telephone number is 703-305-1500. The examiner can normally be reached on Monday to Friday from 8:30AM to 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau Nguyen can be reached on 703-308-5340. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2663

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Page 5

5/26/04

ANDYLEE

PATENT EXAMNEM